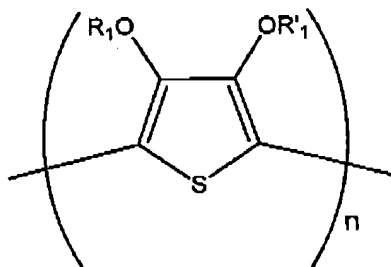


Application No.: 10/669,494
Docket No.: PE0688USNA

2

Amendments to Claims

1. (Original) A composition comprising an aqueous dispersion of a polydioxothiophene and at least one colloid-forming polymeric acid.
2. (Original) A composition according to Claim 1, wherein said polydioxothiophene has the structure:



wherein:

- R_1 and R_1' are each independently selected from hydrogen and alkyl having 1 to 4 carbon atoms,
or R_1 and R_1' taken together form an alkylene chain having 1 to 4 carbon atoms, which may optionally be substituted by alkyl or aromatic groups having 1 to 12 carbon atoms, or a 1,2-cyclohexylene radical, and
 n is greater than about 6.
3. (Original) A composition according to Claim 2, wherein R_1 and R_1' together form an alkylene chain having 1 to 4 carbon atoms.
 4. (Original) A composition according to Claim 3, wherein said polydioxothiophene comprises poly(3,4-ethylenedioxothiophene).
 5. (Original) A composition according to Claim 1, wherein said colloid-forming polymeric acid is selected from polymeric sulfonic acids, polymeric carboxylic acids, and polymeric phosphoric acids.
 6. (Original) A composition according to Claim 1, wherein said polymeric acid comprises a polymeric sulfonic acid.
 7. (Original) A composition according to Claim 6, wherein said polymeric sulfonic acid is fluorinated.
 8. (Original) A composition according to Claim 6, wherein said polymeric sulfonic acid is perfluorinated.

Application No.: 10/669,494
Docket No.: PE0688USNA

3

9. (Original) A composition according to Claim 6, wherein said polymeric sulfonic acid is a perfluoroalkylenesulfonic acid.

10. (Original) A composition according to Claim 9, wherein said polymeric sulfonic acid is perfluoroethylenesulfonic acid.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Original) A composition according to Claim 5, wherein said polymeric acid is a polymeric acrylic acids.

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (Canceled)

35. (Canceled)

36. (Canceled)

37. (Original) A composition comprising an aqueous dispersion of a polydioxothiophene, at least one colloid-forming polymeric acid, and an additional material selected from polymers, dyes, carbon nanotubes, metal nanowires, coating aids, organic and inorganic conductive inks and pastes, charge transport materials, crosslinking agents, and combinations thereof.

Application No.: 10/669,494
Docket No.: PE0688USNA

4

38. (Original) A composition according to Claim 37 wherein the additional material is an electrically conductive polymer selected from polythiophenes, polyanilines, polypyrroles, polyamines, polyacetylenes, and combinations thereof.

39. (Canceled)

40. (Canceled)

41. (Canceled)

42. (Canceled)

43. (Canceled)

44. (Canceled)

45. (Canceled)

46. (Canceled)

47. (Canceled)

48. (Original) A composition of Claim 1, wherein the colloid-forming polymeric acid is selected from polymeric sulfonic acids, polymeric phosphoric acids, polymeric carboxylic acids, polymeric acrylic acids, and mixtures thereof.

49. (Canceled)

50. (Canceled)

51. (Canceled)

52. (Canceled)

53. (Canceled)

54. (Original) A composition of an aqueous dispersion of a polythiophene and at least one colloid-forming polymeric acid.

55. (Canceled)

56. (Canceled)

57. (Canceled)